AMENDMENTS TO THE CLAIMS

- (Previously Presented) A circuit material for the formation of circuits or multilaver circuits, the circuit material comprising:
 - a first conductive layer; and
- a dielectric layer disposed on the first conductive layer, wherein the dielectric layer comprises a crosslinkable liquid crystalline polymer comprising phenyl maleimide groups, nadimide groups, phenylacetylene groups, or a combination comprising at least one of the foregoing groups; and further comprises a particulate filler, a fibrous web, or a combination comprising at least one of the foregoing, wherein the dielectric layer has a dielectric constant of less than about 3.8, a dissipation factor of less than or equal to about 0.007 when measured from 1 to 10 GHz, and a UL-94 rating of V-1 or better, when the liquid crystalline polymer composition is fully crosslinked.
 - 2. (Original) The circuit material of claim 1, wherein the conductive layer is copper.
- (Original) The circuit material of claim 1, wherein the dielectric layer is substantially nonflowable when fully crosslinked.
 - 4. (Canceled)
- (Previously Presented) The circuit material of claim 1, wherein the dielectric layer is flowable when partially crosslinked.
- (Original) The circuit material of claim 1, further comprising a second conductive layer disposed on the dielectric layer on a side opposite the first conductive layer.
 - 7. (Canceled)
- (Original) The circuit material of claim 1, wherein the crosslinkable liquid crystalline polymer comprises phenyl maleimide groups.
 - (Canceled)

- (Previously Presented) A circuit laminate for the formation of circuits or multilayer circuits, the circuit laminate comprising:
 - a first conductive layer; and
- a dielectric substrate disposed on the first conductive layer, wherein the dielectric substrate comprises a B-staged or thermoset liquid crystalline polymer having crosslinked groups derived from phenyl maleimide groups, nadimide groups, phenylacetylene groups, or a combination comprising at least one of the foregoing groups; and further comprises a particulate filler, a fibrous web, or a combination comprising at least one of the foregoing, wherein the dielectric substrate has a dielectric constant of less than about 3.8, a dissipation factor of less than or equal to about 0.007 when measured at 1 to 10 GHz, and a UL-94 rating of V-1 or better when fully crosslinked.
 - 11. (Original) The circuit laminate of claim 10, wherein the conductive layer is copper.
 - 12. (Canceled)
 - 13. (Canceled)
- 14. (Currently Amended) A method of forming a circuit material, comprising contacting a crosslinkable liquid crystalline polymer composition with a conductive layer, wherein the crosslinkable liquid crystalline polymer composition comprises a crosslinkable liquid crystalline polymer comprising phenyl maleimide groups, nadimide groups, phenylacetylene groups, or a combination comprising at least one of the foregoing groups; and further comprises a particulate filler, a fibrous web, or a combination comprising at least one of the foregoing; and

crosslinking the crosslinkable liquid crystalline polymer to form a B-staged or thermoset liquid crystalline polymer dielectric material, wherein the fully crosslinked composition has a dielectric constant of less than about 3.8, a dissipation factor of less than or equal to about 0.007 when measured from 1 to 10 GHz, and a UL-94 rating of V-1 or better.[[.]]

15. (Currently Amended) A circuit comprising:

a dielectric substrate comprising a thermoset liquid crystalline polymer having crosslinked phenyl maleimide groups, nadimide groups, phenylacetylene groups, or a combination comprising at least one of the foregoing groups; and further comprising a particulate filler, a fibrous web, or a combination comprising at least one of the foregoing; and

a first conductive circuit layer disposed on the dielectric substrate, wherein the dielectric substrate has a dielectric constant of less than about 3.8, a dissipation factor of less than or equal to about 0.007 when measured from 1 to 10 GHz, and a UL-94 rating of V-1 or better.[[.]]

- 16. (Original) The circuit of claim 15, wherein the conductive layer is copper.
- (Canceled)
- (Canceled)
- 19. (Currently Amended) A multi-layer circuit comprising:

a resin coated conductive layer comprising a first conductive layer disposed on a flowable dielectric material; and

a diclad circuit, comprising a dielectric substrate disposed between a circuit layer and a second conductive layer, wherein the flowable dielectric material is disposed on a side of the circuit layer opposite the dielectric substrate, and further wherein

the flowable dielectric material, the dielectric substrate, or both, comprises a thermoset liquid crystalline polymer having crosslinked phenyl maleimide groups, nadimide groups, phenylacetylene groups, or a combination comprising at least one of the foregoing groups;

wherein the multi-layer circuit has a dielectric constant of less than about 3.8, a dissipation factor of less than or equal to about 0.007, and a UL-94 rating of V-1 or better.

- (Previously Presented) The multi-layer circuit of claim 19, wherein the first conductive layer, second conductive layer, and circuit layer are copper.
 - 21. (Canceled)

- 22. (Original) The multilayer circuit of claim 19, wherein the dielectric substrate further comprises a particulate filler, a fibrous web, or a combination comprising at least one of the foregoing.
 - 23. (Currently Amended) A multi-layer circuit comprising:

a first diclad circuit comprising a first dielectric substrate disposed between a first circuit layer and a second circuit layer;

a second diclad circuit comprising a second dielectric substrate disposed between a third circuit layer and a fourth circuit layer; and

a bond ply disposed between the second circuit layer on a side opposite the first dielectric substrate layer, and the third circuit layer on a side opposite the second dielectric layer, wherein at least one of the first dielectric substrate, the second dielectric substrate, or the bond ply comprises a B-staged or thermoset liquid crystalline polymer having crosslinked phenyl maleimide groups, nadimide groups, phenylacetylene groups, or a combination comprising at least one of the foregoing groups;

wherein the multi-layer circuit has a dielectric constant of less than about 3.8, a dissipation factor of less than or equal to about 0.007, and a UL-94 rating of V-1 or better.

- 24. (Canceled)
- 25. (Original) The multilayer circuit of claim 23, wherein at least one of the first dielectric substrate, the second dielectric substrate, or the bond ply further comprises a particulate filler, a fibrous web, or a combination comprising at least one of the foregoing.
- 26. (Original) The multilayer circuit of claim 23, further comprising a cover film disposed on the first circuit layer on a side opposite the first dielectric layer, wherein the cover film comprises a thermoset liquid crystalline polymer formed by the crosslinking of phenyl maleimide groups, nadimide groups, phenylacetylene groups, or a combination comprising at least one of the foregoing groups.

- (Currently Amended) A B-staged circuit material for the formation of circuits or multi-layer circuits, the circuit material comprising:
 - a first conductive layer; and
- a dielectric layer disposed on the first conductive layer, wherein the dielectric layer comprises a liquid crystalline polymer comprising phenyl maleimide groups, nadimide groups, phenylacetylene groups, or a combination comprising at least one of the foregoing groups, wherein the groups have been partially crosslinked; and further comprises a particulate filler, a fibrous web, or a combination comprising at least one of the foregoing; and further wherein the fully crosslinked liquid crystalline polymer has a dielectric constant of less than about 3.8, a dissipation factor of less than or equal to about 0.007 when measured from 1 to 10 GHz, and a UL-94 rating of V-1 or better.[[.]]
- (Original) The B-staged circuit material of claim 27, wherein the conductive layer is copper.
- (Currently Amended) A circuit material for the formation of circuits or multi-layer circuits, the circuit material comprising:
 - a first conductive layer; and
- a dielectric layer disposed on the first conductive layer, wherein the dielectric layer comprises a liquid crystalline polymer comprising phenyl maleimide groups, nadimide groups, phenylacetylene groups, or a combination comprising at least one of the foregoing groups, and further wherein said groups crosslink at a temperature that is at least about 20°C greater than the melt temperature of the liquid crystalline polymer.
- (Previously Presented) The circuit material of claim 29, wherein the conductive layer is copper.
- (Previously Presented) The circuit material of claim 29, wherein the dielectric layer is substantially nonflowable when fully crosslinked.

- (Previously Presented) The circuit material of claim 29, wherein the dielectric layer is flowable when partially crosslinked.
- (Previously Presented) The circuit material of claim 29, further comprising a second conductive layer disposed on the dielectric layer on a side opposite the first conductive layer.
- 34. (Previously Presented) The circuit material of claim 29, wherein the dielectric layer further comprises a particulate filler, a fibrous web, or a combination comprising at least one of the foregoing.
- (Previously Presented) The circuit material of claim 29, wherein the liquid crystalline polymer comprises phenyl maleimide groups.
- 36. (Previously Presented) The circuit material of claim 29, having a dielectric constant of less than about 3.8, a dissipation factor of less than or equal to about 0.007 when measured from 1 to 10 GHz, and a UL-94 rating of V-1 or better, when the liquid crystalline polymer composition is fully crosslinked.
- (Previously Presented) The circuit laminate of claim 10, further comprising a second conductive layer disposed on the dielectric substrate on a side opposite the first conductive layer.
- (Previously Presented) The circuit laminate of claim 10, wherein the B-staged or thermoset liquid crystalline polymer comprises crosslinked groups derived from phenyl maleimide groups.
- (Previously Presented) The method of claim 14, wherein the conductive layer is copper.
- (Previously Presented) The method of claim 14, wherein the crosslinkable liquid crystalline polymer is substantially nonflowable when fully crosslinked.

- (Previously Presented) The method of claim 14, wherein the crosslinkable liquid crystalline polymer is flowable when partially crosslinked.
- 42. (Previously Presented) The method of claim 14, further comprising contacting the crosslinkable liquid crystalline polymer composition with a second conductive layer on a side opposite the first conductive layer and crosslinking the crosslinkable liquid crystalline polymer to form a B-staged or thermoset liquid crystalline polymer dielectric material.
- (Previously Presented) The method of claim 14, wherein the crosslinkable liquid crystalline polymer comprises phenyl maleimide groups.

44. (Canceled)

- (Previously Presented) The circuit of claim 15, further comprising a second conductive layer disposed on the dielectric substrate on a side opposite the first conductive layer.
- (Previously Presented) The circuit of claim 15, wherein the thermoset liquid crystalline polymer comprises crosslinked phenyl maleimide groups.
- 47. (Previously Presented) The multi-layer circuit of claim 15, wherein the thermoset liquid crystalline polymer comprises crosslinked phenyl maleimide groups.
- 48. (Previously Presented) The multi-layer circuit of claim 23, wherein the first circuit layer, the second circuit layer, the third circuit layer, and the fourth circuit layer are copper.
- (Previously Presented) The multi-layer circuit of claim 23, wherein the B-staged or thermoset liquid crystalline polymer comprises crosslinked phenyl maleimide groups.
- 50. (Previously Presented) The B-staged circuit material of claim 27, wherein the dielectric laver is substantially nonflowable when fully crosslinked.
- (Previously Presented) The B-staged circuit material of claim 27, wherein the dielectric layer is flowable when partially crosslinked.

- (Previously Presented) The B-staged circuit material of claim 27, further comprising a second conductive layer disposed on the dielectric layer on a side opposite the first conductive layer.
- (Previously Presented) The B-staged circuit material of claim 27, wherein the liquid crystalline polymer comprises phenyl maleimide groups.
 - 54. (Canceled)
 - 55. (Previously Presented) A circuit material comprising:
 - a first conductive layer; and
- a dielectric layer disposed on the first conductive layer, wherein the dielectric layer comprises a crosslinkable liquid crystalline polymer comprising phenyl maleimide groups, nadimide groups, phenylacetylene groups, or a combination comprising at least one of the foregoing groups, wherein the circuit material has a dielectric constant of less than about 3.8, a dissipation factor of less than or equal to about 0.007 when measured from 1 to 10 GHz, and a UL-94 rating of V-1 or better, when the liquid crystalline polymer composition is fully crosslinked.
- (Previously Presented) The circuit material of claim 55, wherein the conductive layer is copper.
- (Previously Presented) The circuit material of claim 55, wherein the dielectric layer is substantially nonflowable when fully crosslinked.
- (Previously Presented) The circuit material of claim 55, wherein the dielectric layer is flowable when partially crosslinked.
- 59. (Previously Presented) The circuit material of claim 55, further comprising a second conductive layer disposed on the dielectric layer on a side opposite the first conductive layer.

- (Previously Presented) The circuit material of claim 55, wherein the crosslinkable liquid crystalline polymer comprises phenyl maleimide groups.
 - 61. (Previously Presented) A circuit laminate comprising:
 - a first conductive layer; and
- a dielectric substrate disposed on the first conductive layer, wherein the dielectric substrate comprises a B-staged or thermoset liquid crystalline polymer having crosslinked groups derived from phenyl maleimide groups, nadimide groups, phenylacetylene groups, or a combination comprising at least one of the foregoing groups, wherein the circuit laminate has a dielectric constant of less than about 3.8, a dissipation factor of less than or equal to about 0.007 when measured at 1 to 10 GHz, and a UL-94 rating of V-1 or better when fully crosslinked.
- (Previously Presented) The circuit laminate of claim 61, wherein the conductive layer is copper.
- (Previously Presented) The circuit laminate of claim 61, further comprising a second conductive layer disposed on the dielectric substrate on a side opposite the first conductive layer.
- (Previously Presented) The circuit laminate of claim 61, wherein the thermoset liquid crystalline polymer comprises crosslinked groups derived from phenyl maleimide groups.
 - 65. (Previously Presented) A circuit comprising:
- a dielectric substrate comprising a thermoset liquid crystalline polymer having crosslinked phenyl maleimide groups, nadimide groups, phenylacetylene groups, or a combination comprising at least one of the foregoing groups; and
 - a first conductive circuit layer disposed on the dielectric substrate;
- wherein the circuit has a dielectric constant of less than about 3.8, a dissipation factor of less than or equal to about 0.007 when measured from 1 to 10 GHz, and a UL-94 rating of V-1 or better.

- 66. (Previously Presented) The circuit of claim 65, wherein the conductive layer is copper.
- 67. (Previously Presented) The circuit of claim 65, further comprising a second conductive circuit layer disposed on the dielectric substrate on a side opposite the first conductive circuit layer.
- 68. (Previously Presented) The circuit of claim 65, wherein the thermoset liquid crystalline polymer comprises crosslinked phenyl maleimide groups.